

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/918,288

DATE: 06/09/2000
TIME: 05:01:51

INPUT SET: S35603.raw

#18
7.2.17

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

1
2
3 (1) General Information
4
5 (i) APPLICANT: BOIME, Irving
6 MOYLE, William R.
7
8 (ii) TITLE OF THE INVENTION: SINGLE-CHAIN FORMS OF THE
9 GLYCOPROTEIN HORMONE QUARTET
10
11 (iii) NUMBER OF SEQUENCES: 83
12
13 (iv) CORRESPONDENCE ADDRESS:
14 (A) ADDRESSEE: MORRISON & FOERSTER
15 (B) STREET: 2000 Pennsylvania Avenue, NW, suite 5500
16 (C) CITY: Washington
17 (D) STATE: DC
18 (E) COUNTRY: USA
19 (F) ZIP: 20006-1888
20
21 (v) COMPUTER READABLE FORM:
22 (A) MEDIUM TYPE: Diskette
23 (B) COMPUTER: IBM Compatible
24 (C) OPERATING SYSTEM: DOS
25 (D) SOFTWARE: FastSEQ for Windows Version 2.0
26
27 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER: 08/918,288
29 (B) FILING DATE:
30 (C) CLASSIFICATION:
31
32 (vii) PRIOR APPLICATION DATA:
33 (A) APPLICATION NUMBER: 09/282,357
34 (B) FILING DATE:
35
36 (A) APPLICATION NUMBER: 08/853,524
37 (B) FILING DATE: 09-MAY-1997
38
39 (A) APPLICATION NUMBER: 08/199,382
40 (B) FILING DATE: 18-FEB-1994
41
42
43 (viii) ATTORNEY/AGENT INFORMATION:
44 (A) NAME: Murashige, Kate H
45 (B) REGISTRATION NUMBER: 29,959
46 (C) REFERENCE/DOCKET NUMBER: 29500-20050.25

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47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: 202-887-1500
50 (B) TELEFAX: 202-887-0763
51 (C) TELEX:
52
53
54 (2) INFORMATION FOR SEQ ID NO:1:
55
56 (i) SEQUENCE CHARACTERISTICS:
57 (A) LENGTH: 28 amino acids
58 (B) TYPE: amino acid
59 (C) STRANDEDNESS: single
60 (D) TOPOLOGY: linear
61
62
63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
64
65 Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro Ser Arg
66 1 5 10 15
67 Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro Gln
68 20 25
69
70 (2) INFORMATION FOR SEQ ID NO:2:
71
72 (i) SEQUENCE CHARACTERISTICS:
73 (A) LENGTH: 836 base pairs
74 (B) TYPE: nucleic acid
75 (C) STRANDEDNESS: double
76 (D) TOPOLOGY: linear
77
78 (ix) FEATURE:
79
80 (A) NAME/KEY: Coding Sequence
81 (B) LOCATION: 33...827
82 (D) OTHER INFORMATION:
83
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
85
86 ATGAAATCGA CGGAATCAGA CTCGAGCCAA GG ATG GAG ATG TTC CAG GGG CTG 53
87 Met Glu Met Phe Gln Gly Leu
88 1 5
89
90 CTG CTG TTG CTG CTG CTG AGC ATG GGC GGG ACA TGG GCA TCC AAG GAG 101
91 Leu Leu Leu Leu Leu Leu Ser Met Gly Gly Thr Trp Ala Ser Lys Glu
92 10 15 20
93
94 CCG CTT CGG CCA CGG TGC CGC CCC ATC AAT GCC ACC CTG GCT GTG GAG 149
95 Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr Leu Ala Val Glu
96 25 30 35
97
98 AAG GAG GGC TGC CCC GTG TGC ATC ACC GTC AAC ACC ACC ATC TGT GCC 197
99 Lys Glu Gly Cys Pro Val Cys Ile Thr Val Asn Thr Thr Ile Cys Ala

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	40	45	50	55	
100					
101					
102	GGC TAC TGC CCC ACC ATG ACC CGC GTG CTG CAG GGG GTC CTG CCG GCC				245
103	Gly Tyr Cys Pro Thr Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala				
104		60	65	70	
105					
106	CTG CCT CAG GTG GTG TGC AAC TAC CGC GAT GTG CGC TTC GAG TCC ATC				293
107	Leu Pro Gln Val Val Cys Asn Tyr Arg Asp Val Arg Phe Glu Ser Ile				
108		75	80	85	
109					
110	CGG CTC CCT GGC TGC CCG CGC GGC GTG AAC CCC GTG GTC TCC TAC GCC				341
111	Arg Leu Pro Gly Cys Pro Arg Gly Val Asn Pro Val Val Ser Tyr Ala				
112		90	95	100	
113					
114	GTG GCT CTC AGC TGT CAA TGT GCA CTC TGC CGC CGC AGC ACC ACT GAC				389
115	Val Ala Leu Ser Cys Gln Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp				
116		105	110	115	
117					
118	TGC GGG GGT CCC AAG GAC CAC CCC TTG ACC TGT GAT GAC CCC CGC TTC				437
119	Cys Gly Gly Pro Lys Asp His Pro Leu Thr Cys Asp Asp Pro Arg Phe				
120	120	125	130	135	
121					
122	CAG GAC TCC TCT TCC TCA AAG GCC CCT CCC CCC AGC CTT CCA AGC CCA				485
123	Gln Asp Ser Ser Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Pro				
124		140	145	150	
125					
126	TCC CGA CTC CCG GGG CCC TCG GAC ACC CCG ATC CTC CCC CAA GGA TCC				533
127	Ser Arg Leu Pro Gly Pro Ser Asp Thr Pro Ile Leu Pro Gln Gly Ser				
128		155	160	165	
129					
130	GGT AGC GGA TCT GGT AGC GCT CCT GAT GTG CAG GAT TGC CCA GAA TGC				581
131	Gly Ser Gly Ser Gly Ser Ala Pro Asp Val Gln Asp Cys Pro Glu Cys				
132		170	175	180	
133					
134	ACG CTA CAG GAA AAC CCA TTC TTC TCC CAG CCG GGT GCC CCA ATA CTT				629
135	Thr Leu Gln Glu Asn Pro Phe Phe Ser Gln Pro Gly Ala Pro Ile Leu				
136		185	190	195	
137					
138	CAG TGC ATG GGC TGC TGC TTC TCT AGA GCA TAT CCC ACT CCA CTA AGG				677
139	Gln Cys Met Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro Leu Arg				
140	200	205	210	215	
141					
142	TCC AAG AAG ACG ATG TTG GTC CAA AAG AAC GTC ACC TCA GAG TCC ACT				725
143	Ser Lys Lys Thr Met Leu Val Gln Lys Asn Val Thr Ser Glu Ser Thr				
144		220	225	230	
145					
146	TGC TGT GTA GCT AAA TCA TAT AAC AGG GTC ACA GTA ATG GGG GGT TTC				773
147	Cys Cys Val Ala Lys Ser Tyr Asn Arg Val Thr Val Met Gly Gly Phe				
148		235	240	245	
149					
150	AAA GTG GAG AAC CAC ACG GCG TGC CAC TGC AGT ACT TGT TAT TAT CAC				821
151	Lys Val Glu Asn His Thr Ala Cys His Cys Ser Thr Cys Tyr Tyr His				
152		250	255	260	

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153
154   AAA TCT TAAGGTACC
155   Lys Ser
156       265

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836

(2) INFORMATION FOR SEO ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265 amino acids

(B) TYPE: amino acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

172	Met	Glu	Met	Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Met	Gly
173	1				5					10				15	
174	Gly	Thr	Trp	Ala	Ser	Lys	Glu	Pro	Leu	Arg	Pro	Arg	Cys	Arg	Ile
175				20					25				30		
176	Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile
177			35					40					45		
178	Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Thr	Arg
179		50					55					60			
180	Leu	Gln	Gly	Val	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr
181	65					70					75				80
182	Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly
183					85					90					95
184	Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala
185				100					105					110	
186	Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro
187			115					120					125		
188	Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	Ser	Lys	Ala
189		130					135						140		
190	Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp
191	145					150					155				160
192	Pro	Ile	Leu	Pro	Gln	Gly	Ser	Gly	Ser	Gly	Ser	Gly	Ser	Ala	Pro
193					165					170					175
194	Val	Gln	Asp	Cys	Pro	Glu	Cys	Thr	Leu	Gln	Glu	Asn	Pro	Phe	Phe
195				180					185					190	
196	Gln	Pro	Gly	Ala	Pro	Ile	Leu	Gln	Cys	Met	Gly	Cys	Cys	Phe	Ser
197			195					200					205		
198	Ala	Tyr	Pro	Thr	Pro	Leu	Arg	Ser	Lys	Lys	Thr	Met	Leu	Val	Gln
199		210					215					220			
200	Asn	Val	Thr	Ser	Glu	Ser	Thr	Cys	Cys	Val	Ala	Lys	Ser	Tyr	Asn
201	225					230					235				240
202	Val	Thr	Val	Met	Gly	Gly	Phe	Lys	Val	Glu	Asn	His	Thr	Ala	Cys
203					245					250					255
204	Cys	Ser	Thr	Cys	Tyr	Tyr	His	Lys	Ser						
205				260					265						

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/918,288

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Line

Error

Original Text